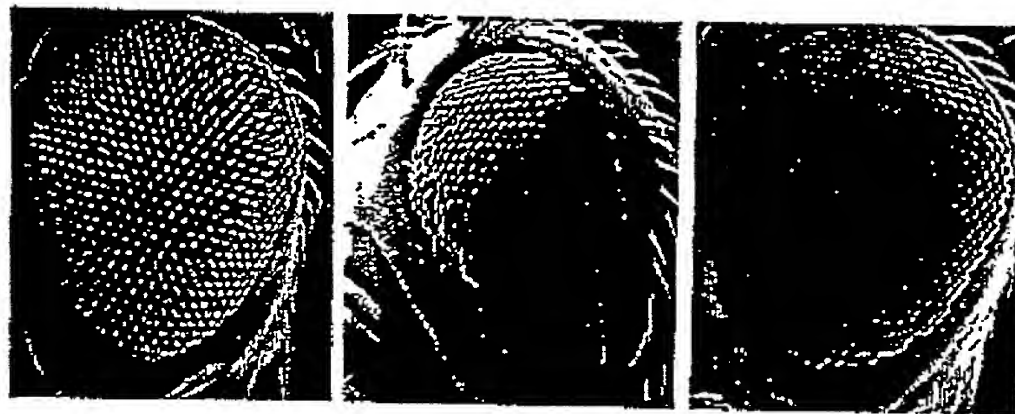


Figure 1

A



wild type

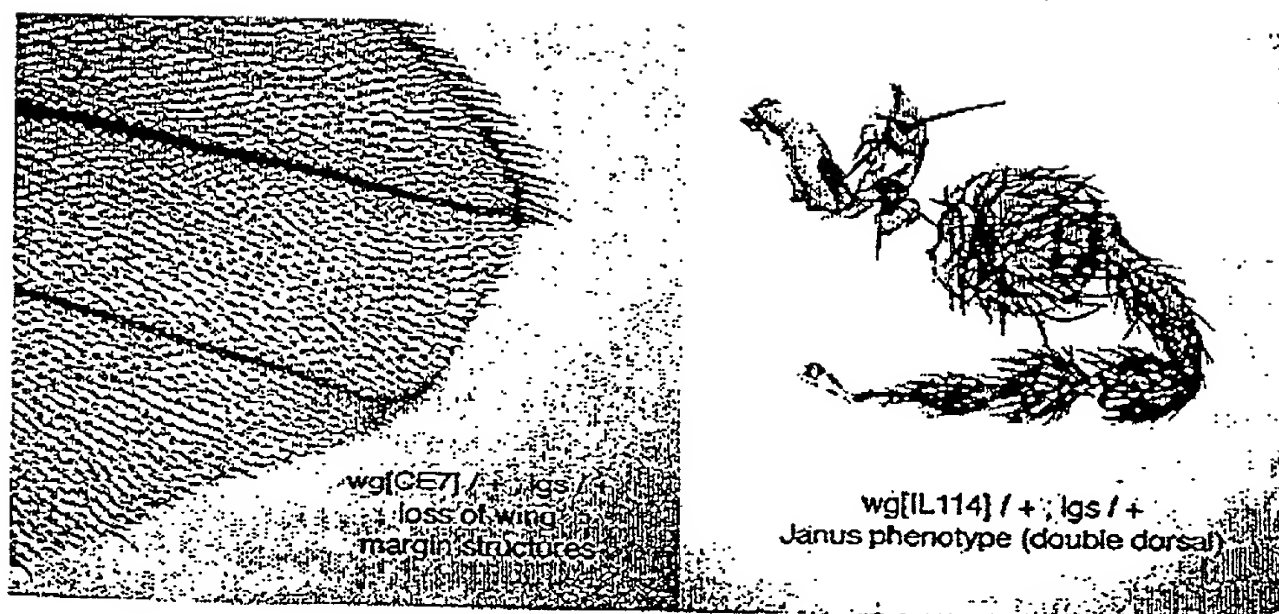
sev-wg

sev-wg, lgs^{S17}/+

B



C



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[illegible][illegible]

Figure 2: *legless*

C	P	E	A	G	H	L	N	M	S	O	K	O	N	K	I	'	1232
A	C	A	A	A	T	T	O	O	O	O	A	A	T	O	T	A	5820
T	N	F	P	C	A	E	M	T	N	F	F	Q	N	C	M	N	1257
A	T	T	O	T	C	A	A	A	A	A	A	T	T	A	T	T	5800
I	V	D	X	E	O	G	L	P	O	H	D	C	S	M	Z	O	1272
T	C	T	A	T	A	A	A	A	T	O	O	C	A	A	T	T	5940
S	X	I	R	O	N	A	R	B	A	N	K	F	V	H	G	A	7292
C	C	A	C	O	O	T	T	A	C	A	C	O	A	A	A	T	6900
F	P	V	N	R	Q	S	O	F	A	Q	S	S	D	C	I	O	1312
C	A	T	C	O	T	C	A	C	A	T	T	T	A	C	A	A	6060
D	P	S	E	F	T	N	A	S	C	M	S	A	G	N	M	F	1332
T	C	A	C	A	A	A	A	A	T	C	O	C	T	A	A	A	6128
S	A	Q	A	A	A	A	A	A	A	A	A	A	A	A	A	A	1352
T	O	T	C	A	A	A	A	A	A	A	A	A	A	A	A	A	6128
C	Q	N	O	S	C	L	A	V	A	Q	A	S	O	I	Q	L	1372
C	A	T	O	O	C	A	C	A	T	T	T	A	T	T	T	T	6280
N	A	Q	Q	Q	S	L	I	O	F	T	N	M	N	L	N	T	1392
A	O	T	C	A	T	T	A	C	T	T	C	T	O	T	T	T	6300
S	V	S	A	T	N	C	V	S	O	I	N	F	V	Q	S	T	1412
C	T	C	A	T	T	T	T	T	T	T	T	T	T	T	T	T	6360
L	K	X	A	Q	Q	V	N	S	F	Q	Q	Q	S	V	A	T	1432
A	C	T	C	A	A	A	A	A	A	A	A	A	A	A	A	A	6420
S	Q	Q	Q	Q	Q	M	M	M	Q	Q	N	Q	S	N	I	T	1452
A	N	T	T	A	T	C	A	C	A	A	T	T	T	T	T	T	6480
N	L	S	E	N	T	T	T	T	T	T	T	T	T	T	T	T	1465
T	O	T	C	A	T	T	T	T	T	T	T	T	T	T	T	T	6540
G	A	O	C	T	A	T	T	T	T	T	T	T	T	T	T	T	6600
A	T	A	C	O	T	T	O	A	A	A	A	A	A	A	A	A	6660
T	A	C	A	T	T	T	T	T	T	T	T	T	T	T	T	T	6720
O	T	T	A	C	A	C	A	T	T	T	T	T	T	T	T	T	6780
G	A	A	T	T	A	A	A	T	T	T	T	T	T	T	T	T	6840
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AAAAAAAAA 6909																	

Figure 3

A

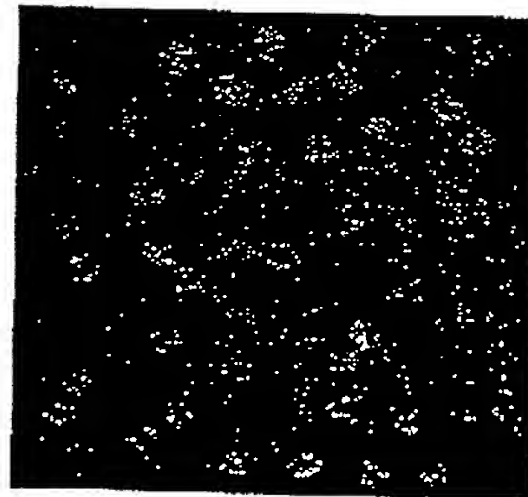
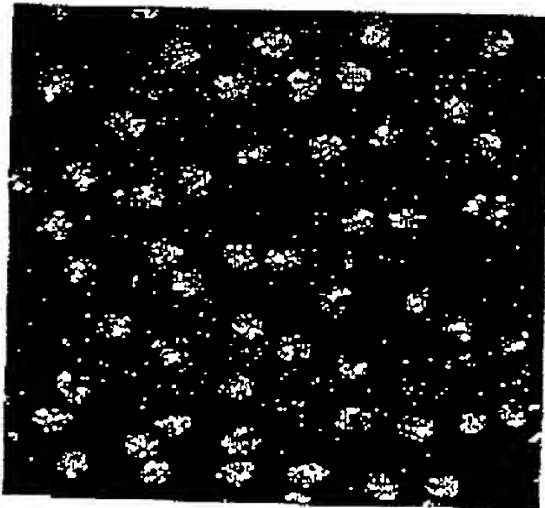


yw x lgs anti-sense



yw x lgs sense

B



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Figure 4

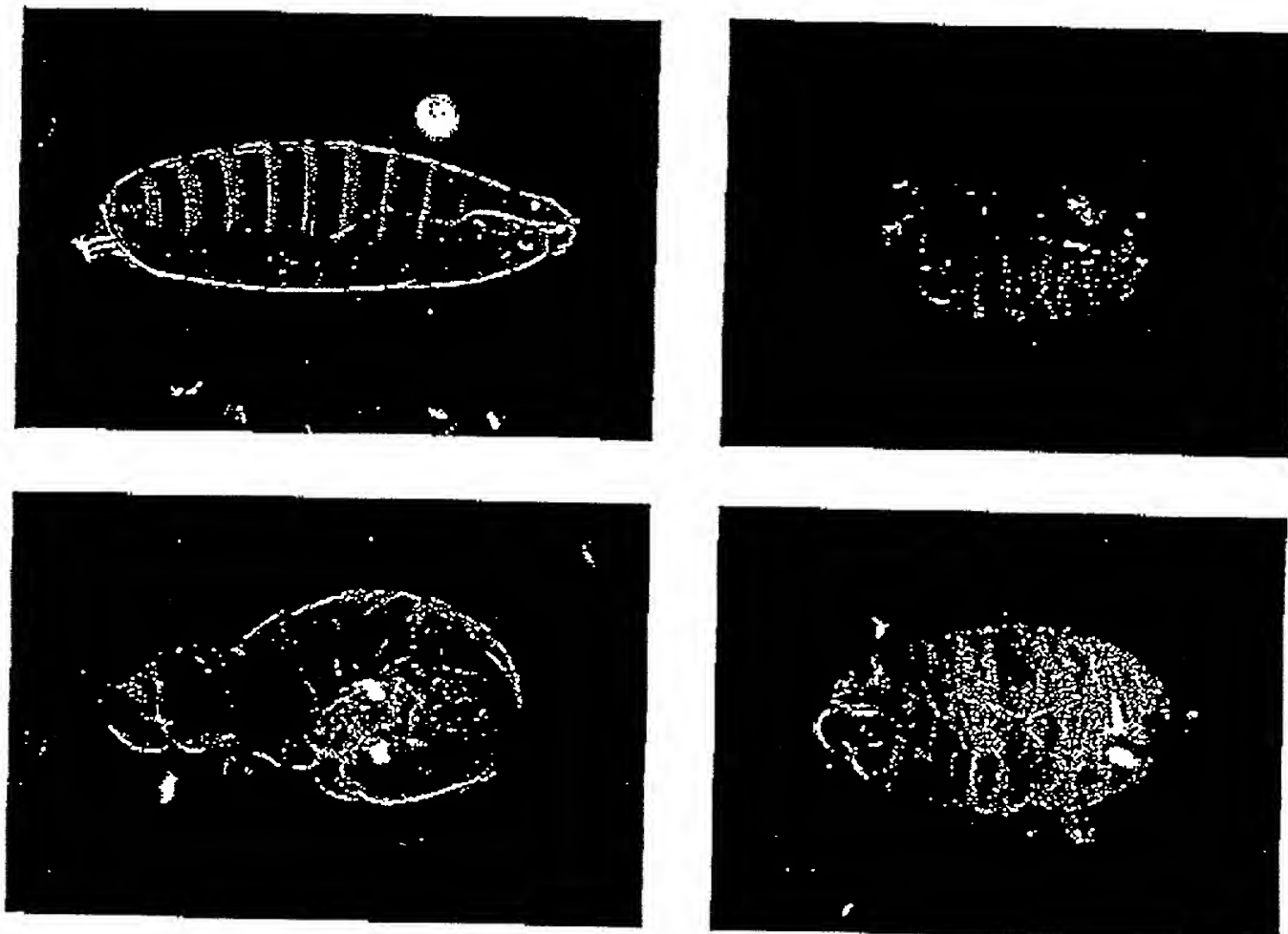
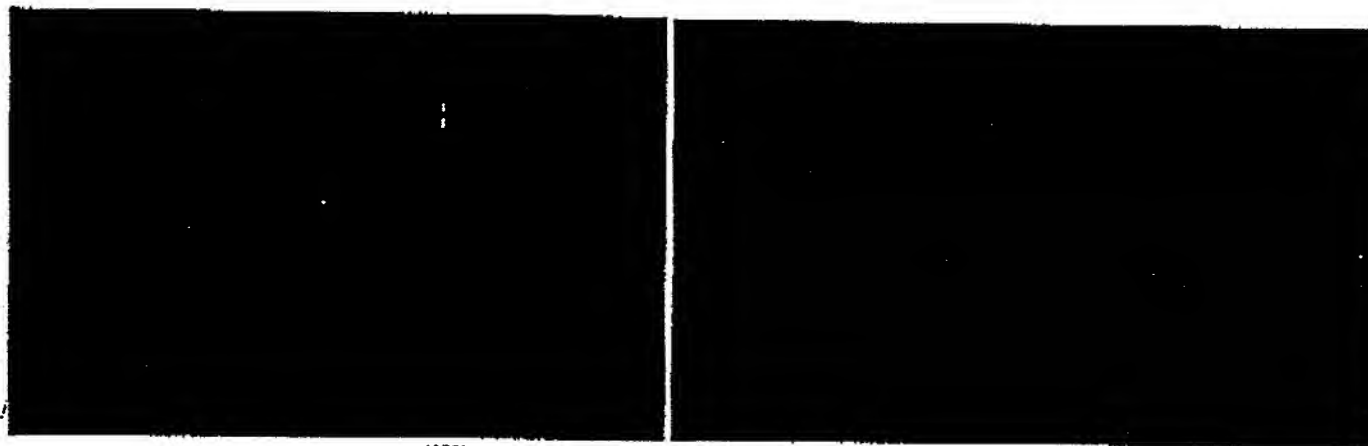


Figure 5

A

EGFP-Lgs

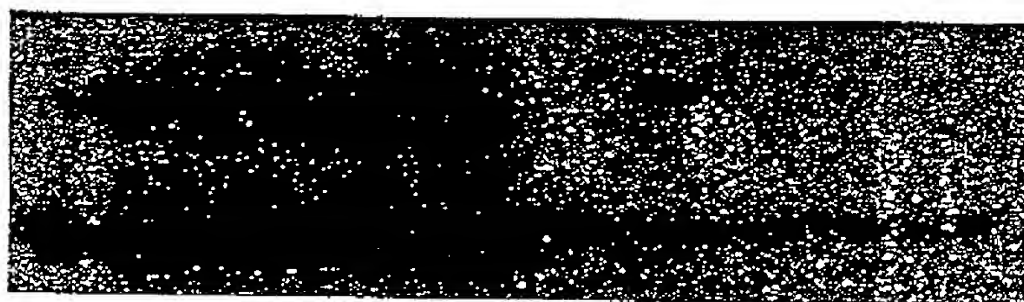
EGFP-Lgs + pcDNA3-Arm-NLS



B

IP anti HA

Control Δ Arm APC dTip Shaggy Control Δ Arm APC dTip Shaggy



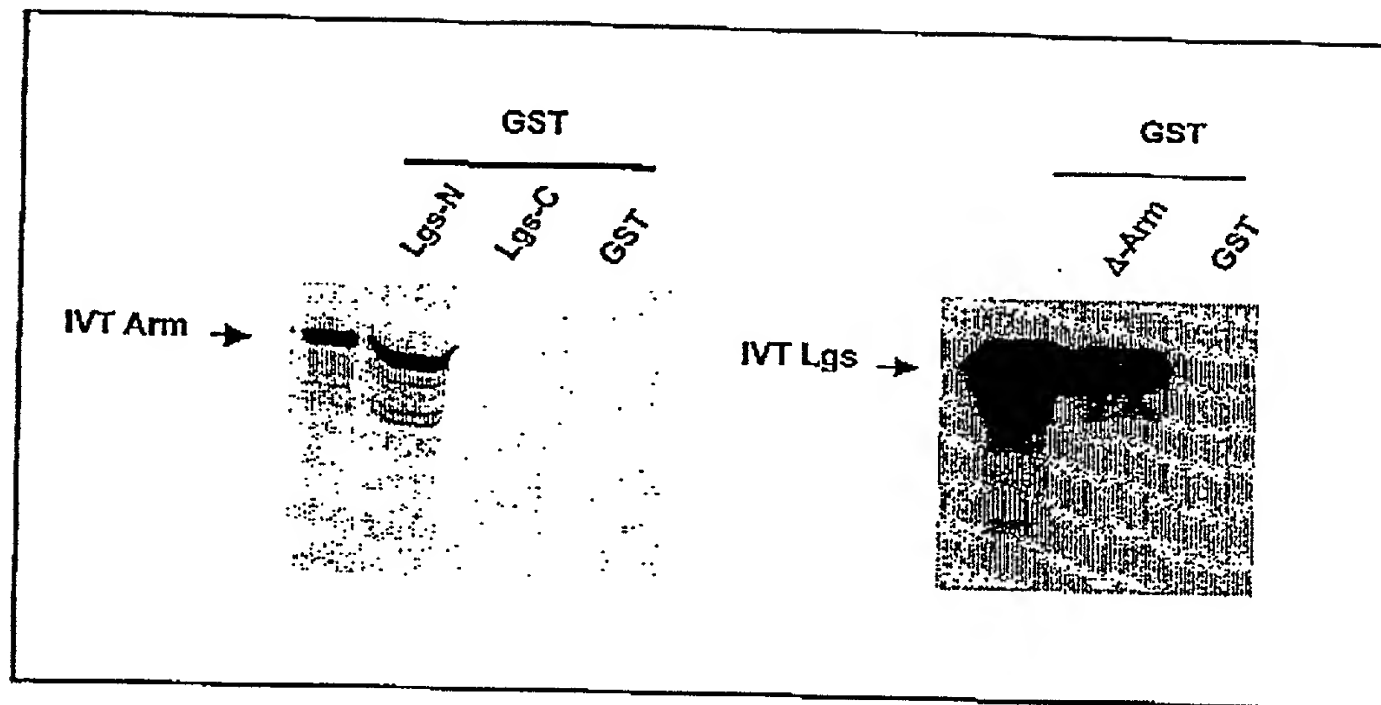
Anti-EGFP

5C

		BAIT fusions: pLex						
		Lgs 1-1464	BCL9 199-392	BCL9 1-1426	Dco+	Δ ArmC	$\Delta\beta$ -Cat	Pan
PREY fusions: pJG4-5	lgs364-555					+		
	lgs1-385					+		
	lgs1-732					+		
	lgs364-1090					+		
	lgs726-1464					+		
	lgs1-1464				+	+	n.d.	+
	BCL9 199-392					+	n.d.	
	BCL9 1-1426					+	+	
	Dco+	+						
	DAXin	+				+		
	Δ ArmC	+	+	+				+
	β -Cat	+	+	+				
	Pan	+				+		
	pJG4-5	+	+	+		+	+	

+: interaction seen in yeast two-hybrid assay
 -: no interaction seen in yeast two-hybrid assay
 n.d.: not done
 numberings refer to amino acid positions.

5D



5E

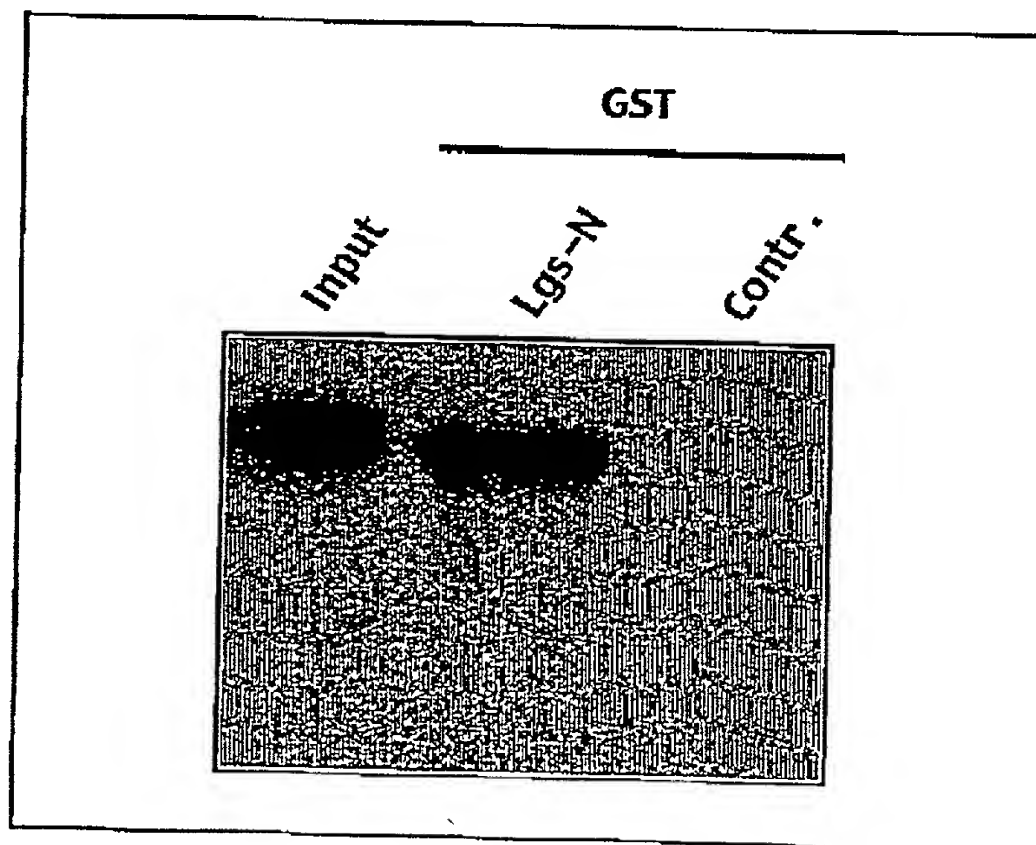


Figure 6

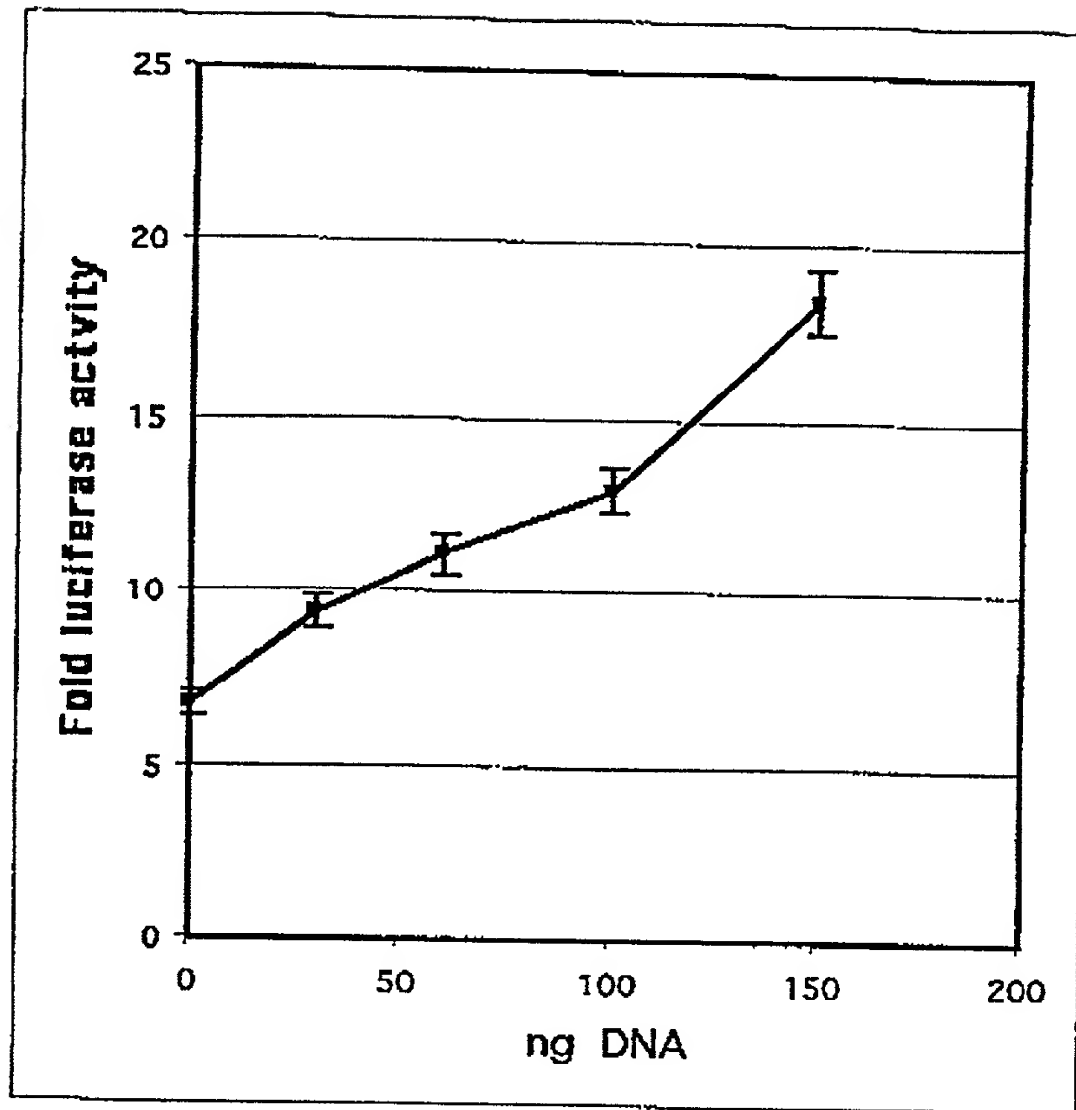
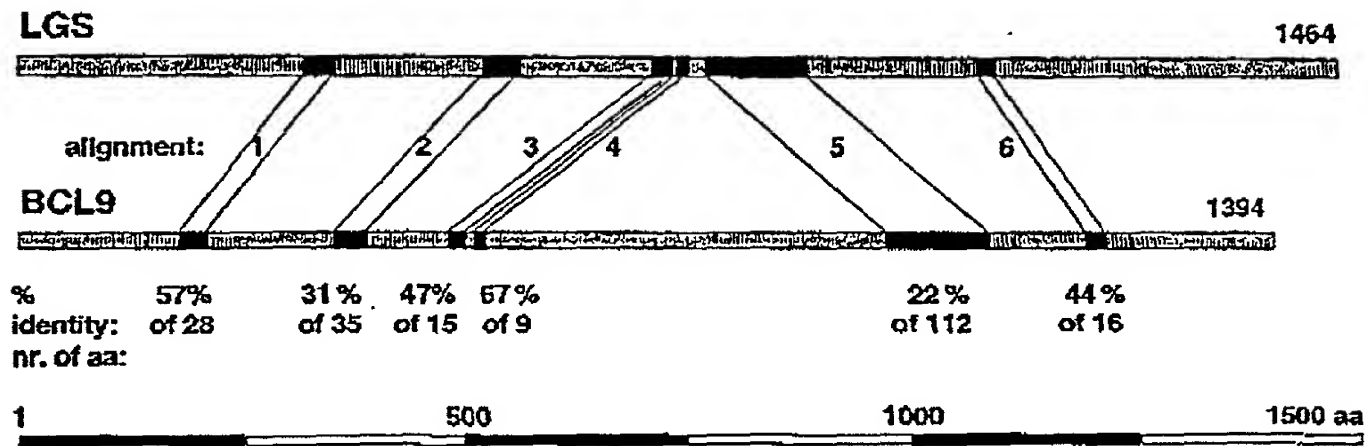


Figure 7

A



bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Sequence homology domain 1: 57.1% identity in 28 aa

Sequence homology domain 2: 31.4% identity in 35 aa

Sequence homology domain 3: 46.7% identity in 15 aa

Sequence homology domain 4: 66.6% identity in 9 aa

Sequence homology domain 5: 22.3% identity in 112 aa

Sequence homology domain 6: 43.8% identity in 16 aa

```

                                1080
LGS      NPKMKVAGGPNPNGPPPGF
          .. .. : : : : : : : :
BCL9     DAALCKPGGPGGGPDSF
          1190                      1200

```

Figure 8

A

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Figure 8A

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GTTCCATTCCCTCACAATGGCCCCAGTGGGGGGCAGGGCAGCTTCCCAGG
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CCCAAAGTTCAGCAGATGCAGCACTTTGCAAGCCTGGAGGCCCCCGGGGT
CCTGACTCCTTCACTGTCTGGGGAACAGCATGCCTTCGGTGTTTACAGA
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TTGATCTATCCCGCATTATTCCATCTGAGAAGCCCAGCCAGACGCTGCAA
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Figure 8B

B

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MVHQHGPRGVVRGPPPPYQMTPEGWAPGGTEPFSDGINMPHSLPPRGMA
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Figure 9

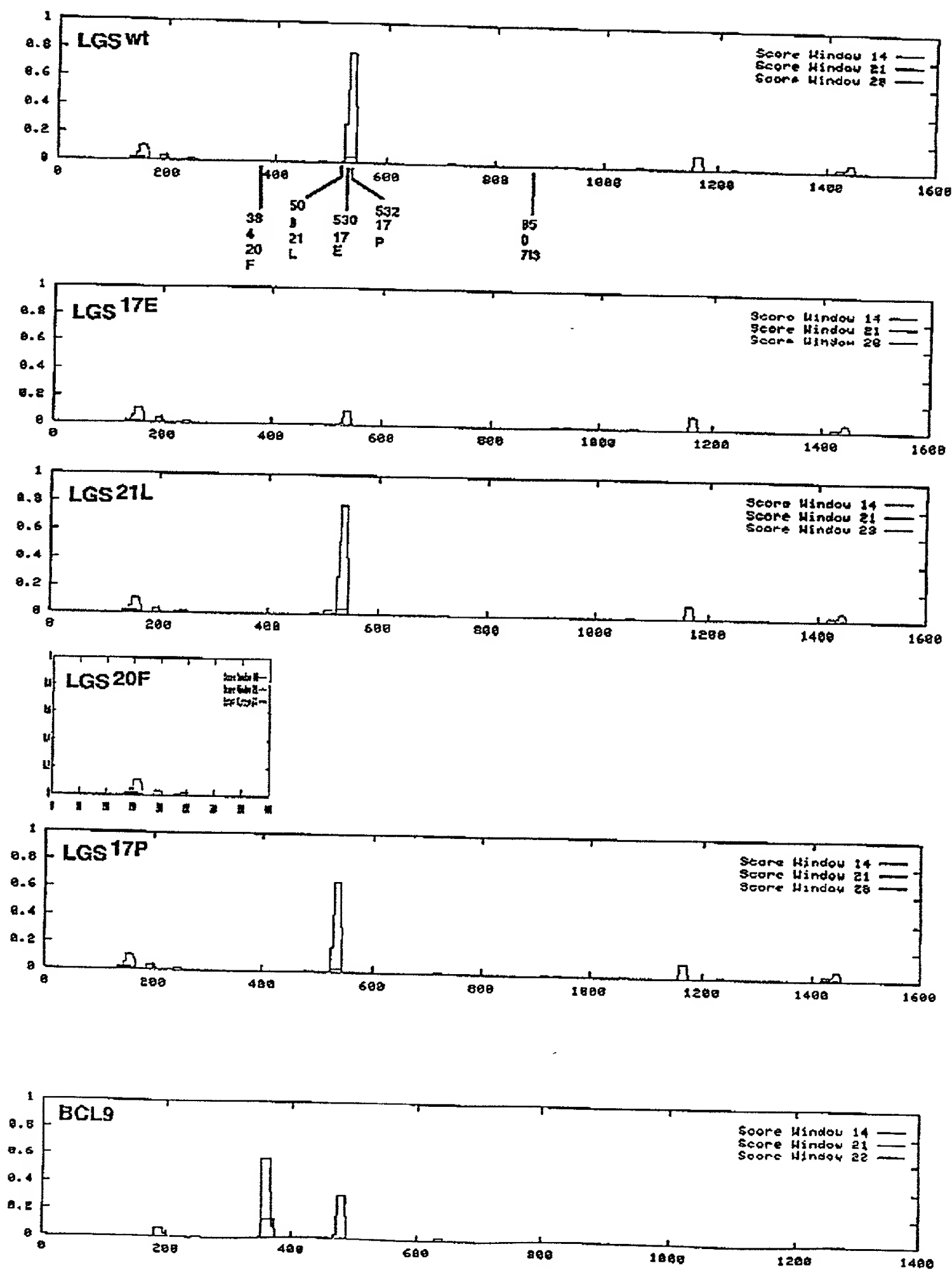


Figure 10

A

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CTGTGCTGCGGCTGTGAGGTGCGGGAACACCTGAGCCATGGAAACCTGACGGTGCTGTAC

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Figure 10

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GTGATCAAGGAGATGGCAGCTCAGATCCGTGAGGTGGAGCAGAGCCGACAGGAGGTGGTT
CGGTCTGTCTTAGAGACAGGTCCCCCAAGATACGCCCTCACAGTCCGGTCCCCCGCCGTC
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CAAGCTCGGTGCCTCTGCGCCCCCGCAGGGGCGCCCTCAAGCCTGAGCCCCCGGGCGC
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B

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MLMSQKMRGPGDLMGPQGLSPEEMARVRAQNSSGMVPLPSANPPGPLKSP
QVLGSSLSVRSPTGSPSRLKSPSMAVPSPGWVASPKTAMPSPGVSONKQP
PLNMNSSTTLNMEQDPTPSQNPLSLMMTQMSKYAMPSSSTPLYHNAIKTI
ATSDDELLPDRPLLPPPPPPQSGSGPGPSLNAPCGVPSSSQMMFPFPR
LQPHGAMAPTGGGGGGPGLOQHYPGSMALPPEDLPNQPPGPMPPQQHLM
GKAMAGRMGDAYPPGVLPGVASVLNDPELSEVIRPTPTGIPEFDLSRIIP
SEKPSSTLQYFPKSENQPPKAQPPNLHLMNLQNMMAEQTPSRPPNLPQQQ
GDRPLVWIPGTRAMAPAQRCPLCRQTFQGRGHVYSRKHQRLKEALER
LLPQVEAARKAIRAAQVERYVPEHEROCWLOCGCEVREHLSHGNTVLY
GGLLEHLASPEHKATNKFWWENKAQVQMKKFLVTPQDYARFKSMVKG
LDSYEEKEDKVIKEMAAQIREVEQSRQEVVRSVLETGPPRYALTVRSPAV
LSRRTLKSGAFPPQTPEAHPOARCLCAPRRGALKPEPPGRTLKLGVPHT
TRKARPHAAKTSRPRCTRQAPNKTQSLQLAGKARKTALHLQTKALVGDD
DTVLGVKLSIANYDL

Q60361.1

Figure 11

A



B



Q-60361

Figure 12

A

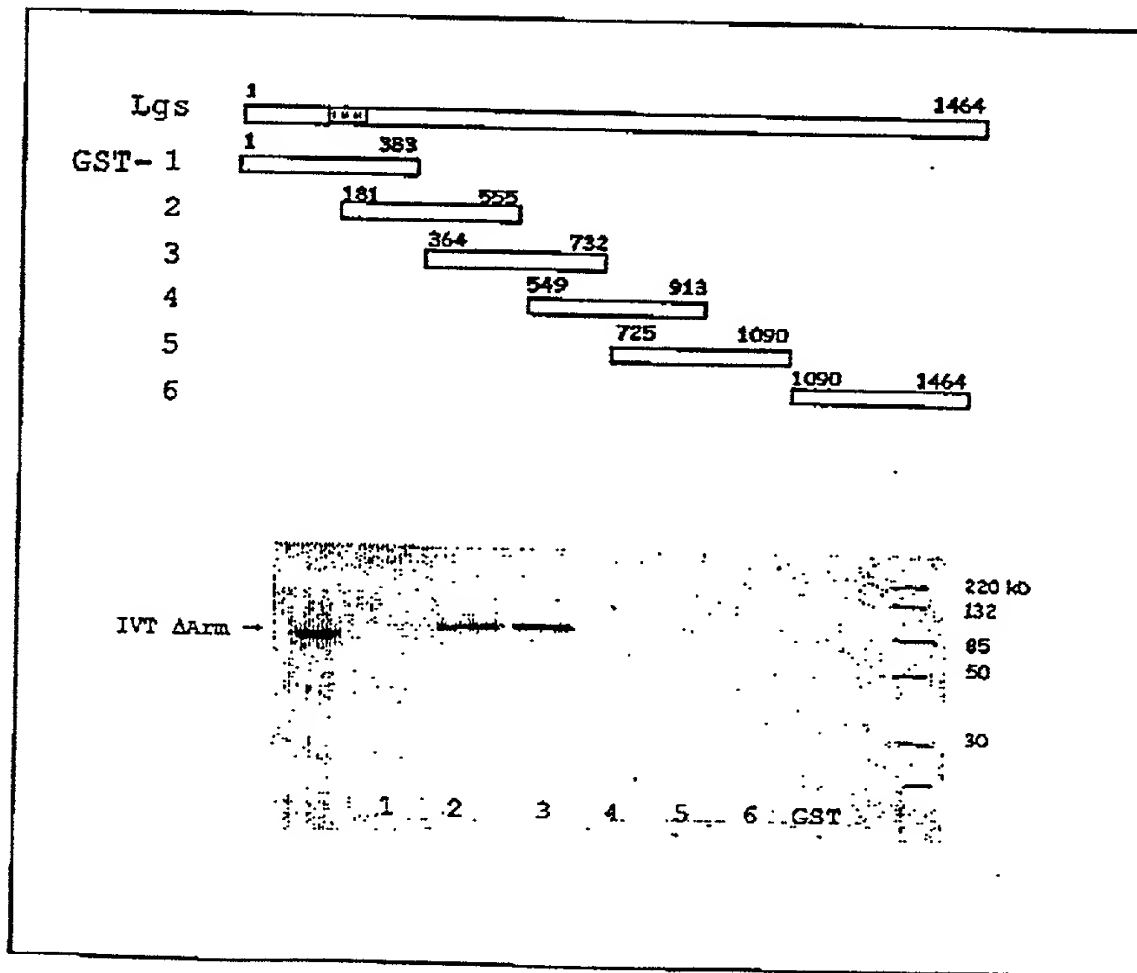
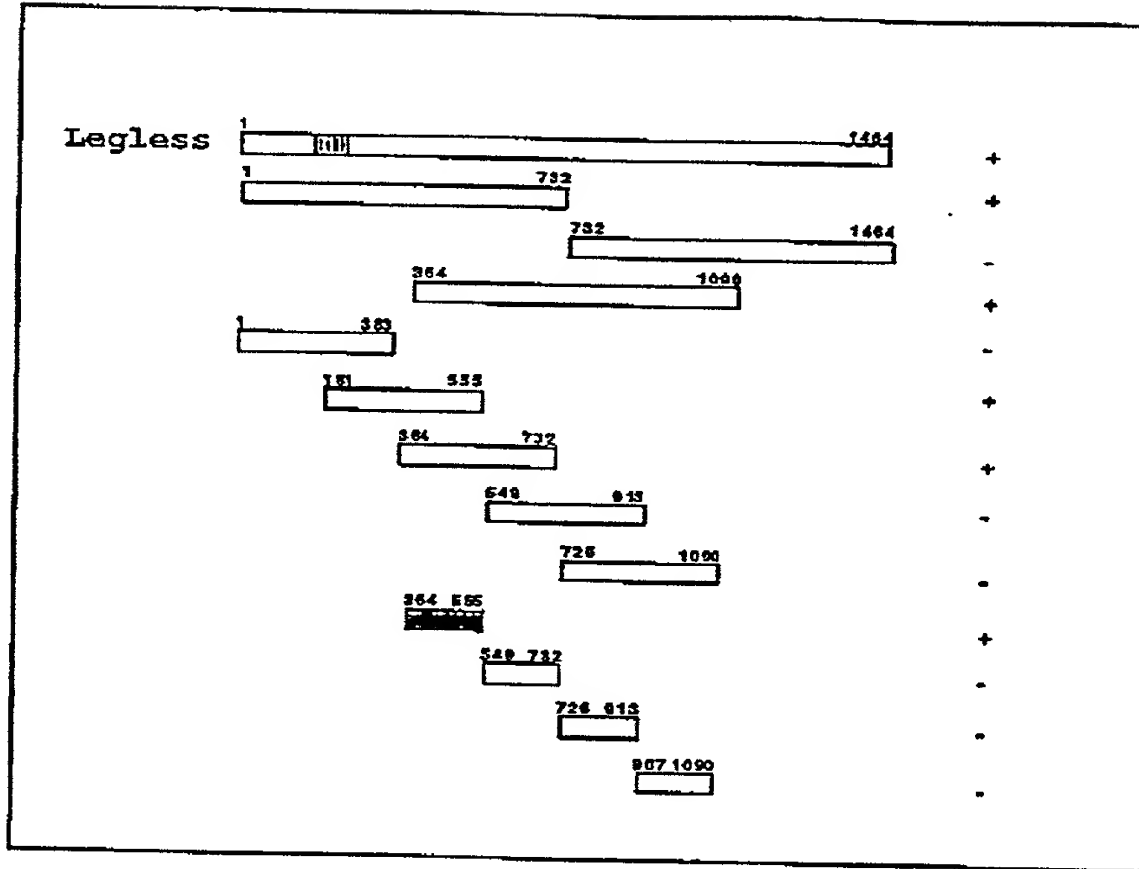


Figure 12B

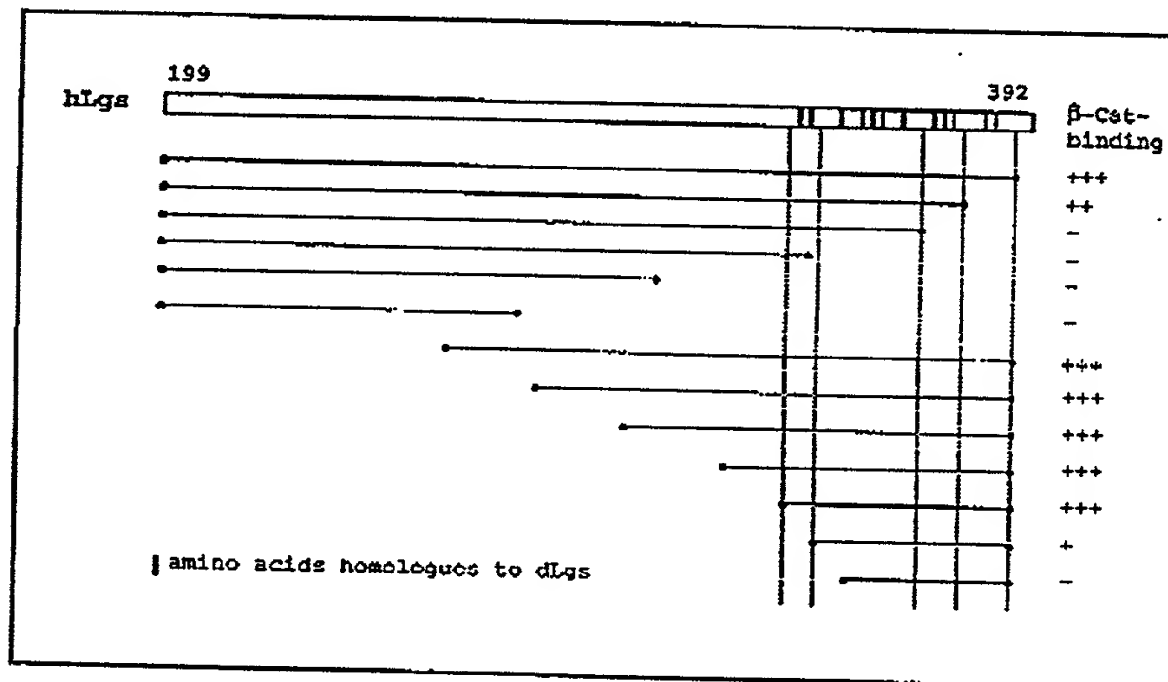
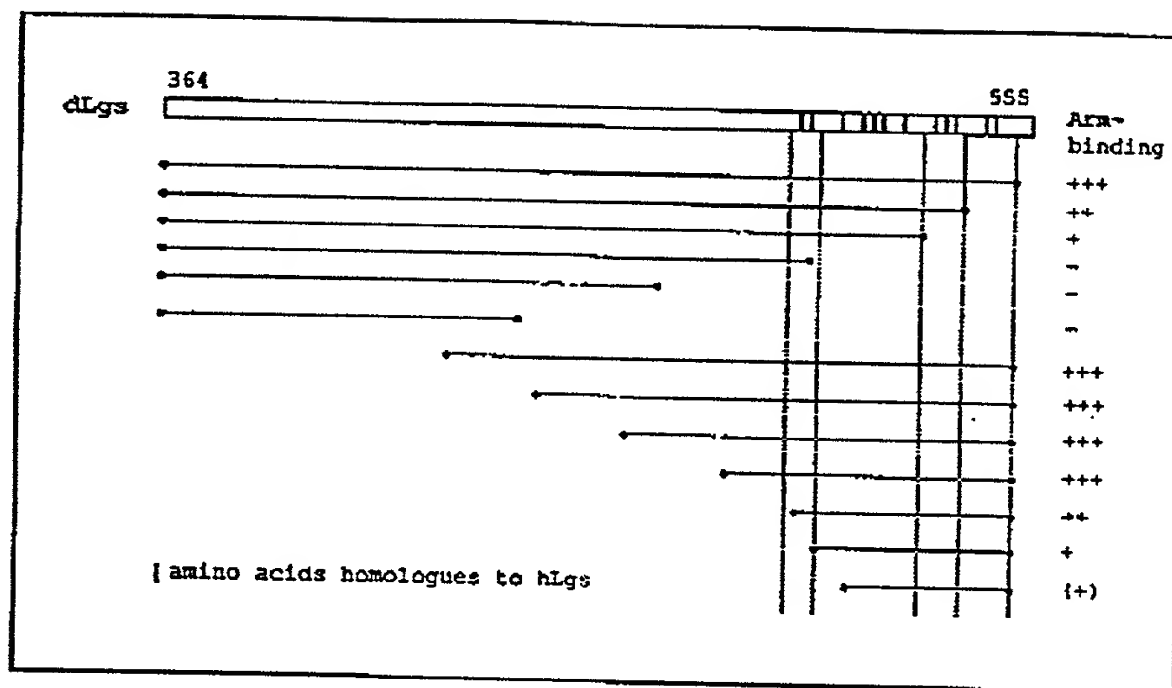
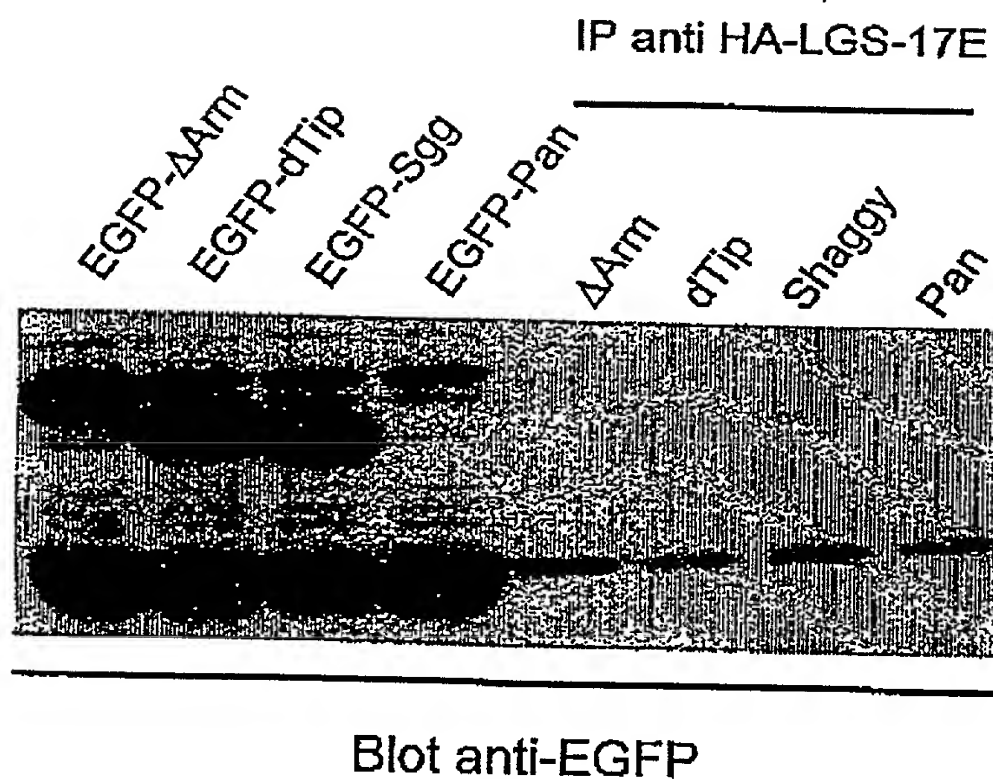


Figure 12C

	In vitro interaction
N [1 2 3 4 5 6 7 8 9 10 11 12 13] C	++
[1 2 3 4 5 6 7 8 9 10 11 12 13] C	++
[1 2 3 4 5 6 7 8 9 10 11 12 13] C	-
N [1 2 3 4 5 6 7 8 9 10 11 12 13]	++
N [1 2 3 4 5 6 7 8]	+++
N [1 2 3 4 5 6]	+++
N [1 2 3 4]	++
N [1 2]	-
[1 2 3 4 5 6 7 8 9 10 11 12 13]	++
[1 2 3 4 5 6 7 8]	+++
[1 2 3 4 5 6]	+++
[1 2 3 4]	++
[1 2]	-
[3 4 5 6 7 8]	(+)
[5 6 7 8]	(-)
[7 8 9 10 11 12 13]	(-)
[9 10 11 12 13]	(-)

Figure 13

A



B

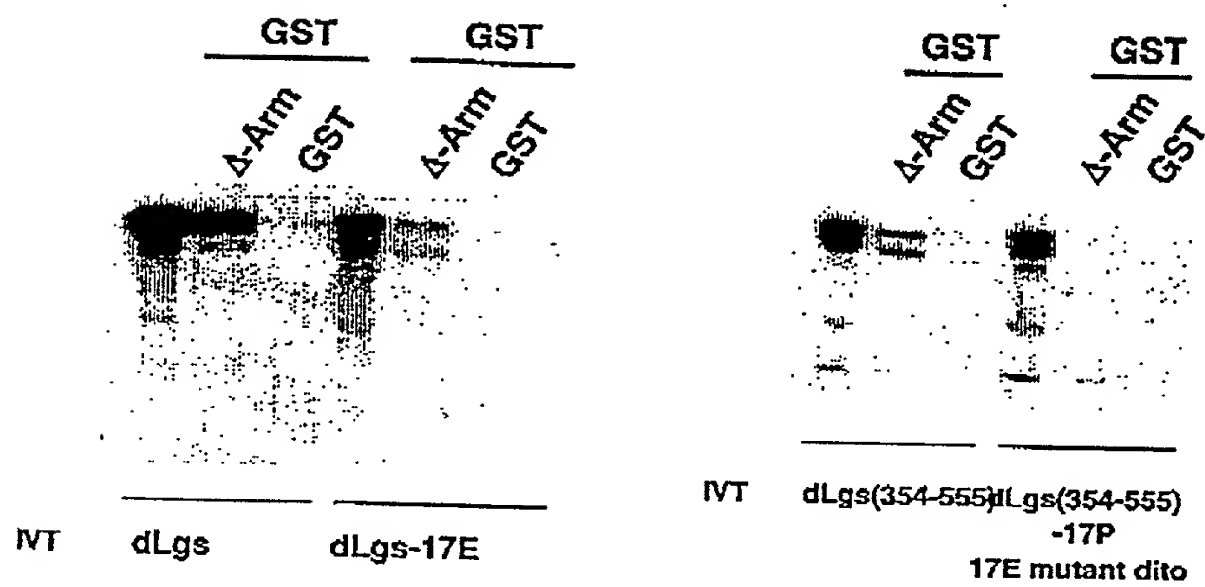
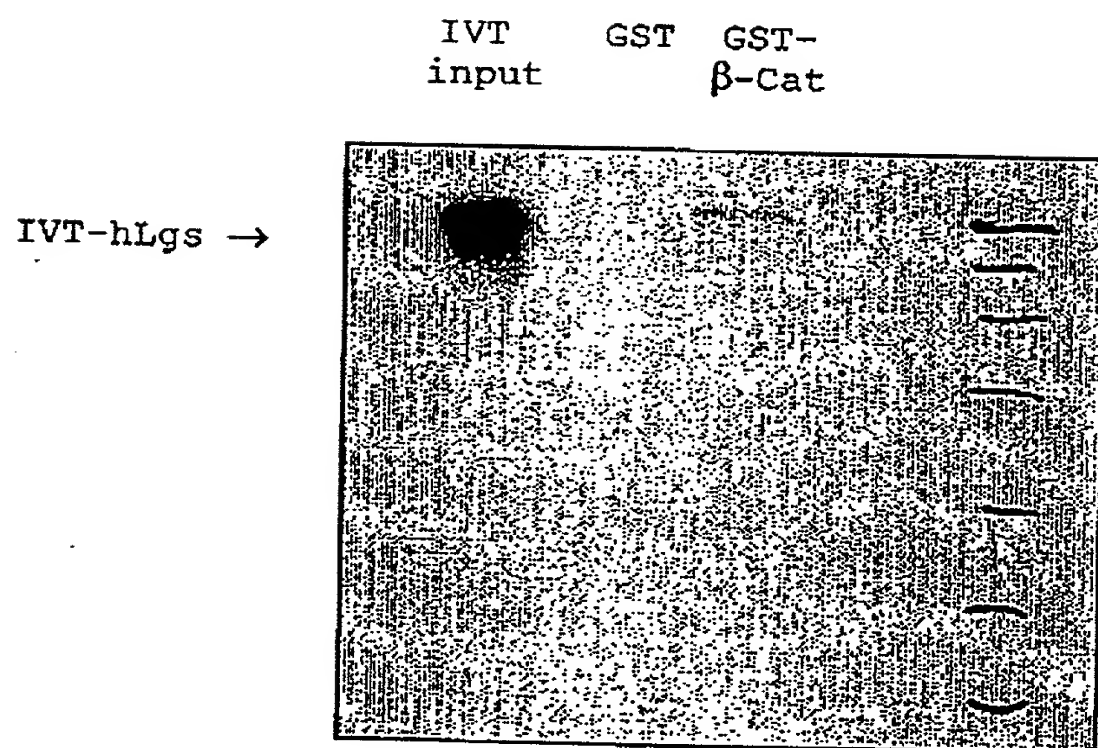


Figure 13

C



D

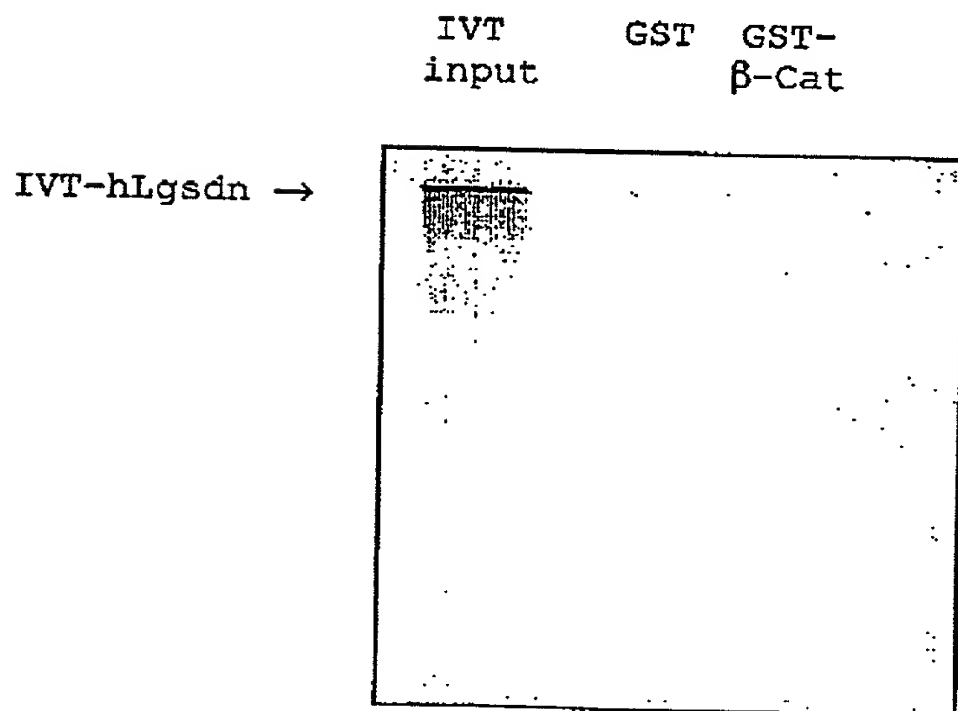


Figure 14

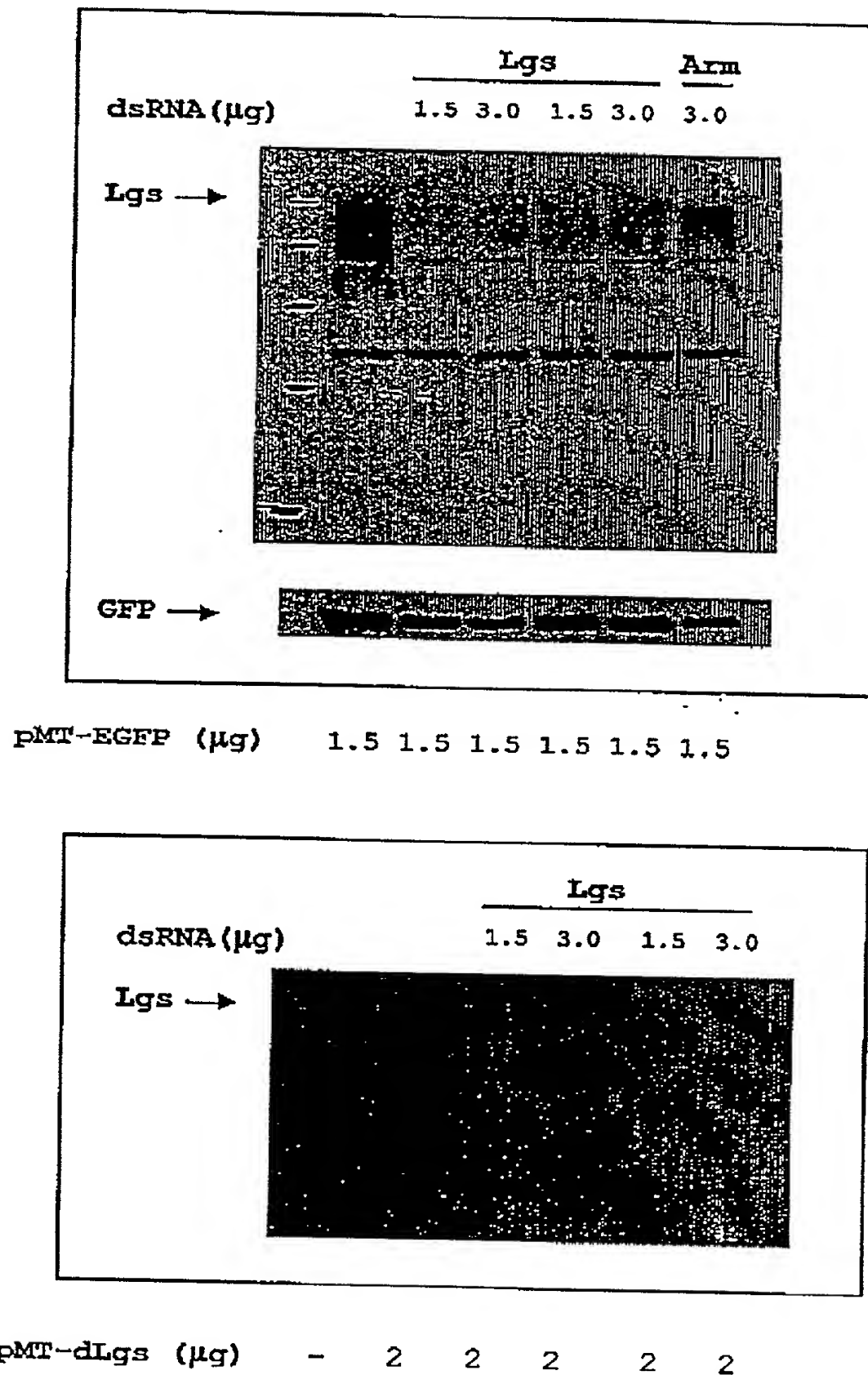
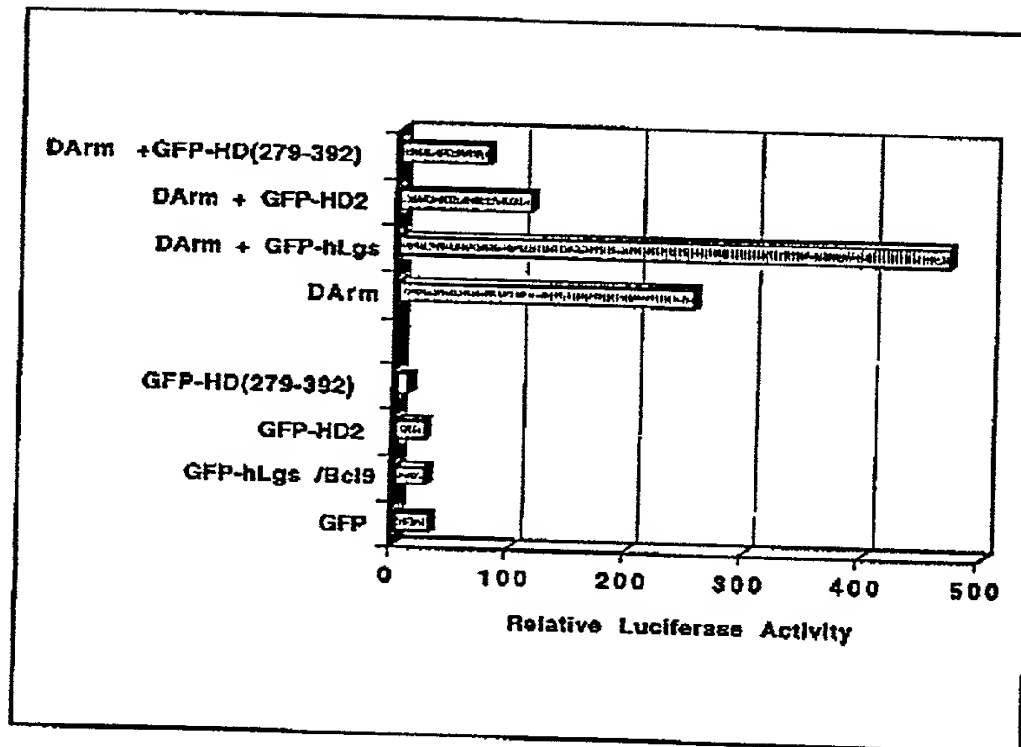


Figure 15

A



B

